



Postdoctoral fellow position
“FLASH radiotherapy with MV x-rays”
X-ray Cancer Imaging and Therapy Experimental (XCITE) lab
University of Victoria
Department of Physics and Astronomy



The XCITE Lab invites applications for a postdoctoral fellow to work on the development of a machine capable of ultrahigh dose-rate (FLASH) radiotherapy. Candidates from underrepresented groups (Indigenous applicants, women, people of color, etc.) will be given preference.

This **exciting research** involves the development of a machine for the delivery of ultrahigh dose-rate (FLASH) radiotherapy with megavoltage x-rays. FLASH is currently one of the hottest topics of radiation oncology and is thought to have the potential to revolutionize radiotherapy. During the first year of research, the fellow will perform Monte Carlo simulations and thermomechanical simulations of the beam target and beam shaping system, as well as treatment planning studies given the constraints of the machine. In the second year, experimental work might be conducted in California.

Applicants must hold a PhD degree in Medical Physics, Physics, Engineering or a related field. The ideal applicant should have demonstrated knowledge of radiation physics, academic excellence, research aptitude and motivation to perform high-quality research. In addition, the ideal applicant should have good communication and writing skills and willingness to collaborate with a team of diverse researchers. Experience with **Monte Carlo and thermomechanical simulations** are a plus. The top applicants will give a talk on their recent research and undergo an interview with members of the XCITE lab.

Victoria is the capital city of British Columbia and is located on the southern tip of Vancouver Island. Victoria offers its residents a small-town feeling with all the benefits of modern urban living. With its exhilarating ocean and mountain sceneries and year-round mild climate, Victoria is a very attractive destination for **people loving outdoor activities** or a relaxed lifestyle.

This one-year position is funded by [TibaRay, Inc.](#), and could be extended to two years. Non-Canadian citizens will have to apply for a work permit, but relocation to Victoria, BC, might not be necessary in the first year.

The position is available now and will be open until filled. To apply, please send your curriculum vitae, motivation letter and two letters of reference by to:

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